

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/39836

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C09K 21/10; C07D 251/00, 251/40; C07F 9/02, 9/22

US CL : 544/232, 214; 564/15, 12, 14; 252/609; 568/14;

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 544/232, 214; 564/15, 12, 14; 252/609; 568/14;

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

USPT, USOC, and PGPB West text search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US 4,369,064 a (VON BONIN) 18 January 1983, see abstract, column 2, lines 49-59 and column 7, line 31 to column 8, line 28.	1 and 5 ----- 2-4, 12-13
X --- A	US 4,599,375 A (BERTE et al.) 08 July 1986, see abstract, column 4, lines 23-46 and column 5, lines 23-32.	1 and 5 ----- 2-4 and 12-13
X --- A	US 5,948,837 A (CICCHETTI et al.) 07 September 1999, see abstract, column 1, line 64 to column 2, line 10, column 3, lines 14-44 and Examples 1.	1, and 12-13 ----- 2-5
A	US 2002/0040083 A (KUWAKI et al.) 04 April 2002, see abstract, section [0019], and section [0032].	1-5 and 12-13
A	US 4,992,481 A (VON BONIN et al.) 12 February 1991, see abstract, and column 6, line 57 to column 7, line 10.	1-5 and 12-13
A	US 6284,838 A (SILBIGER) 04 September 2001, see abstract and column 8, line 66 to column 9, line 11.	1-5 and 12-13



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

10 March 2005 (10.03.2005)

Date of mailing of the international search report

28 MAR 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Joseph D. Anthony

Telephone No. (571) 272-1700

J. D. Anthony
Fas

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PCT/US04/39836

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
&	US 2005/0029499 A (KASOWSKI et al.) 10 February 2005, see abstract, examples and claims.	1-5 and 12-13

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 6-11 and 14-19 have not been search nor examined because they are all improperly multiply dependent claims as covered in the second and third sections of PCT Rule 6.4(a).
3. ☒ Claims Nos.: 6-11 and 14-19
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.